

WHAT IS CLAIMED IS:

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1. Apparatus for the removal of lens tissue, said apparatus comprising, in combination:

5 a first instrument for inserting into a lens capsule and removing a cataract therein, the first needle including a lumen for aspiration of cataract tissue and irrigation fluid from said lens capsule; and

10 a second instrument for inserting into the lens capsule and manipulating the cataract as the cataract is being removed, said second instrument having an irrigation port for introducing the irrigation fluid into said lens capsule.

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2. The apparatus according to claim 1 wherein said second instrument comprises a tip, attached to a shaft, for manipulating the cataract.

20 3. The apparatus according to claim 2 wherein said shaft includes a shaft lumen therethrough for delivering the irrigation fluid to said irrigation port.

25 4. The apparatus according to claim 2 wherein said first instrument comprises a conduit, attached to said shaft, for delivering the irrigation fluid to said irrigation port.

30 5. The apparatus according to claim 1 wherein said second instrument comprises a plurality of irrigation ports for introducing the irrigation fluid into said lens capsule.

6. The apparatus according to claim 5 wherein the tip comprises a hook.

5 7. The apparatus according to claim 5 wherein the tip comprises a blade.

8. Apparatus for the removal of lens tissue, said apparatus comprising, in combination:

10 a first instrument, including a vibrated needle for inserting into a lens capsule and removing a cataract therein, the first instrument including a lumen therethrough for aspiration of emulsified cataract tissue and irrigation fluid from said lens
15 capsule; and

a second instrument for inserting into the lens capsule and manipulating the cataract as the cataract is being removed, said second instrument having an irrigation port for introducing the
20 irrigation fluid into said lens capsule.

9. The apparatus according to claim 8 within said first instrument comprises a tip, attached to a shaft, for manipulating the cataract.

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10. The apparatus according to claim 9 wherein said shaft includes a shaft lumen therethrough for delivering the irrigation fluid to said irrigation port.

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11. The apparatus according to claim 9 wherein said first instrument comprises a conduit, attached to

said shaft, for delivering the irrigation fluid to said irrigation port.

12. The apparatus according to claim 8 wherein said second instrument comprises a plurality of irrigation ports for introducing the irrigation fluid into said lens capsule.

13. The apparatus according to claim 12 wherein the tip comprises a hook.

14. The apparatus according to claim 12 wherein the tip comprise a blade.

15. Apparatus for the phacoemulsification of lens tissue, said apparatus comprising, in combination:

a first instrument, including an ultrasonically vibrated needle for inserting into a lens capsule and emulsifying a cataract therein, the needle including lumen therethrough for aspiration of emulsified cataract tissue and irrigation fluid from said lens capsule through a primary aspiration port defined by an end of said lumen; and

a second instrument for inserting into the lens capsule and manipulating the cataract as the cataract is being emulsified, said second instrument having an irrigation port for introducing the irrigation fluid into said lens capsule.

16. The apparatus according to claim 15 within said first instrument comprises a tip, attached to a shaft, for manipulating the cataract.

17. The apparatus according to claim 16 wherein
said shaft includes a shaft lumen therethrough for
delivering the irrigation fluid to said irrigation
5 port.

18. The apparatus according to claim 17 wherein
said first instrument comprises a conduit, attached to
said shaft, for delivering the irrigation fluid to
10 said irrigation port.

19. The apparatus according to claim 15 wherein
said second instrument comprises a plurality of
irrigation ports for introducing the irrigation fluid
15 into said lens capsule.

20. The apparatus according to claim 19 wherein
the tip comprises a hook.

20 - 21. The apparatus according to claim 19 wherein
the tip comprises a blade.

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